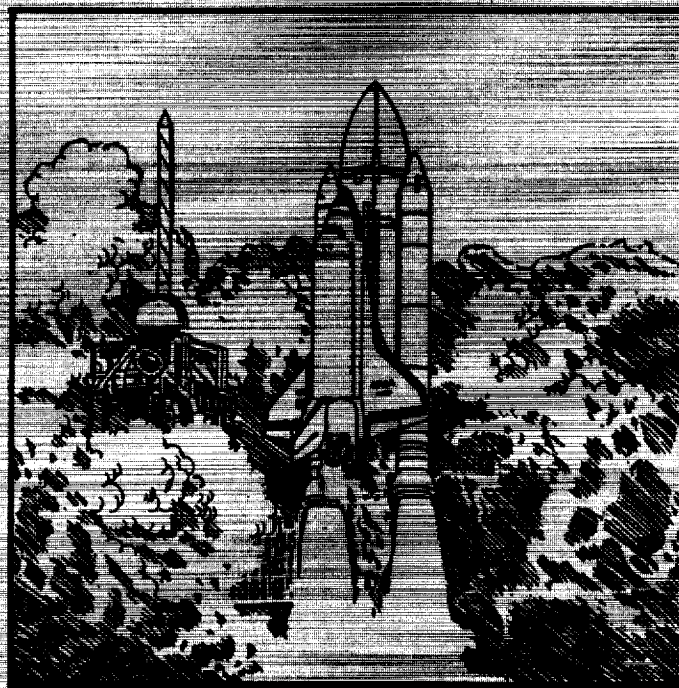


ANNUAL PROCUREMENT REPORT

Fiscal Year 1992



National Aeronautics and
Space Administration

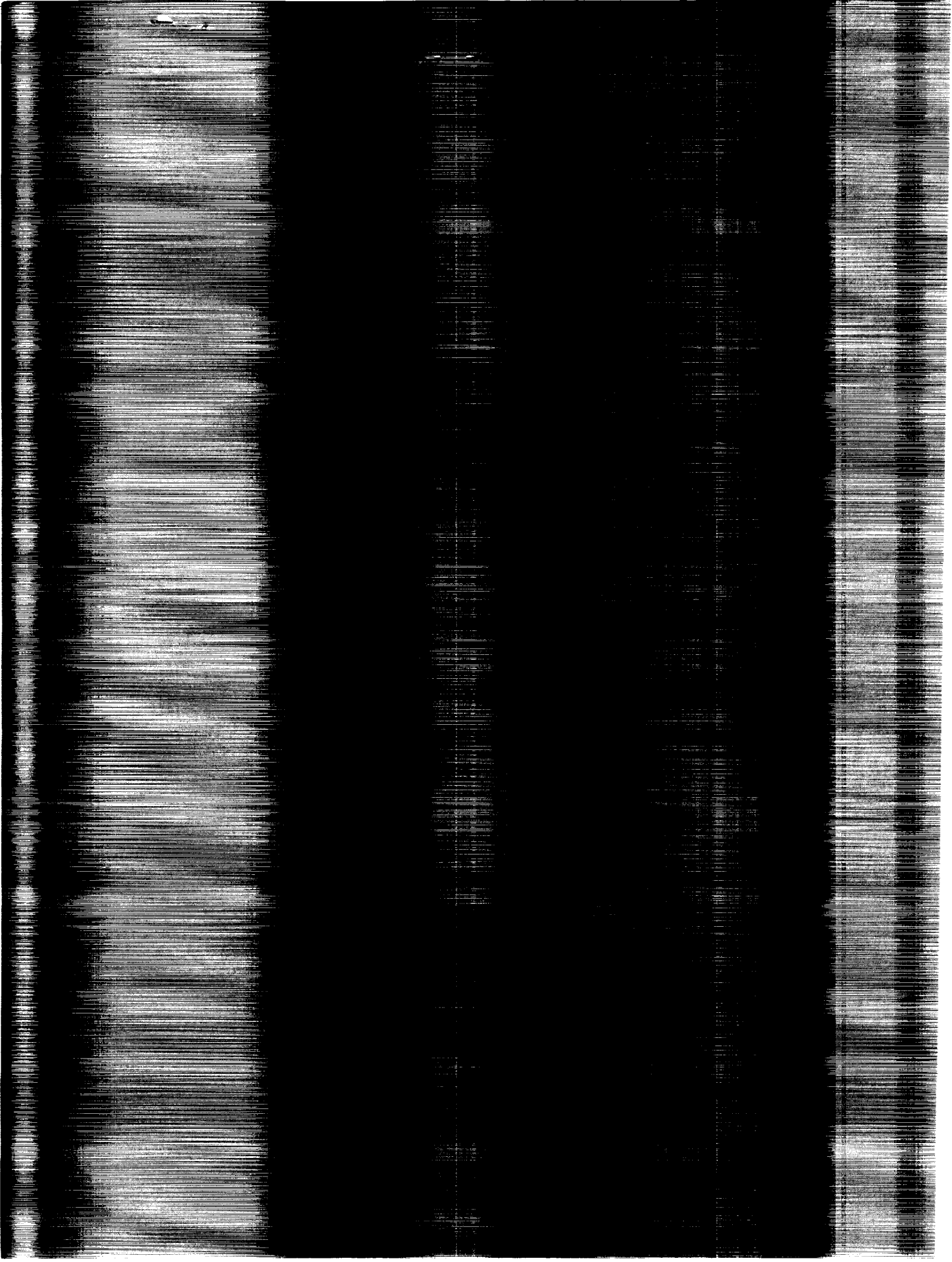
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(NASA-TM-109392) SUMMARY DATA ON
ALL NASA PROCUREMENT ACTIONS Annual
Procurement Report, FY 1992 (NASA)
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INTRODUCTION

This report presents summary data on all NASA procurement actions and detailed information on contracts, grants, agreements and other procurements over \$25,000 awarded by NASA during Fiscal Year 1992.

The dollar value on procurements over \$25,000 amounted to 97 percent of the total dollar value of procurement actions completed during Fiscal Year 1992. However, these larger procurements accounted for only 28 percent of the total actions.

Procurement action, as used in this report, means contractual actions to obtain supplies, services or construction which increase or decrease funds. A procurement action thus may be a new procurement, or modifications such as supplemental agreements, change orders, or terminations to an existing contract that change the total amount of funds obligated. An obligation is a contractual commitment to pay for supplies or services that are specified in the contract.

The report was prepared by the Procurement Systems Division, Office of Procurement, NASA Headquarters. Inquiries should be addressed to:

National Aeronautics and Space Administration
Office of Procurement (Code HM)
Washington, D.C. 20546

CONTENTS

Page

SUMMARY.....	2
I. TOTAL PROCUREMENTS.....	4
II. AWARDS BY TYPE OF CONTRACTOR.....	4
III. COMPETITION IN NASA AWARDS.....	7
A. Competition in Contracting Act.....	7
B. Reporting of Competition.....	8
C. Competition During Fiscal Year 1992.....	8
IV. AWARDS TO BUSINESS FIRMS.....	12
A. Awards By Contract Type.....	12
B. Small Business Participation.....	14
C. Distribution of Small Business Awards.....	16
D. Small Disadvantaged Business Participation.....	19
E. Women-Owned Small Business Participation.....	20
F. Labor Surplus Preference.....	20
G. Awards by Type of Effort.....	21
H. One Hundred Principal Contractors.....	22
V. AWARDS TO EDUCATIONAL & OTHER NONPROFIT INSTITUTIONS.....	27
A. Distribution by Type of Institution & Award.....	27
B. One Hundred Principal Educational & Nonprofit Institutions.....	27
VI. CONTRACT FOR OPERATION OF JET PROPULSION LABORATORY.....	33
VII. AWARDS THROUGH OTHER GOVERNMENT AGENCIES.....	33
VIII. U.S. GEOGRAPHICAL DISTRIBUTION OF AWARDS.....	34
IX. AWARDS PLACED OUTSIDE THE UNITED STATES.....	37
X. PROCUREMENT ACTIVITY BY INSTALLATION.....	38
GLOSSARY.....	39
APPENDIXES.....	41

SUMMARY

NASA's procurements during Fiscal Year 1992 totalled \$13,478.2 million. This is 2.4 percent more than was awarded during Fiscal Year 1991 (for further detail see Page 4).

Approximately 79 percent of the total awards were placed directly with business firms, 9 percent with the California Institute of Technology for operations conducted by or through the Government-owned Jet Propulsion Laboratory, 7 percent with educational and other nonprofit institutions, 4 percent with or through other Government agencies and 1 percent outside the U.S. (Page 5).

Eighty percent, or \$8.7 billion, of the \$10.9 billion total procurement awards available for competition were made on a competitive basis. Of the total awards available for competition, \$699 million, or 6.4 percent, represented competitive new awards, and \$8.0 billion, or 73.2 percent, constituted within-scope modifications (incremental funding actions and change orders) to contracts awarded competitively in prior years. Approximately \$780 million, or 7.2 percent, of the total awards were noncompetitive. Of these, \$162 million, or 1.5 percent, of the total available for competition represented new noncompetitive awards, and \$618 million, or 5.7 percent, constituted other than competitive modifications to contracts awarded in prior years. In addition, \$1.4 billion, or 13.2 percent, of the total available for competition represented follow-on awards to companies that had been previously selected on a competitive basis (Page 11). It should be noted that awards associated with the contracts for the operation of NASA's Jet Propulsion Laboratory during Fiscal Year 1992 are excluded from the procurements available for competition.

With respect to contract types, awards on contracts having cost-plus-award-fee provisions amounted to 75 percent of the total awards over \$25,000 to business firms. Awards on firm-fixed-price contracts constituted 10 percent of the total. Cost-plus-fixed-fee contracts accounted for 7 percent of the total. Incentive contracts, both cost-plus-incentive-fee and fixed-price-incentive, made up 4 percent of the total awards (Page 13).

Small business firms received \$1,010.6 million or 9 percent of NASA's direct awards to business firms. This percentage reflects the fact that most of the awards to business firms were for large continuing research and development contracts for major systems and major items of hardware. Of the total new contract awards of \$670.2 million to business firms during the year, small business firms received \$314.6 million, or 46.9 percent (Page 15). Included

in the small business total were NASA awards of \$79.0 million to small and small disadvantaged business through the Small Business Innovation Research Program (Page 16).

Disadvantaged firms received \$280.5 million of the \$1,010.6 million awarded to small business firms in prime contract awards. The \$280.5 million comprised \$48.4 million direct awards and \$232.1 million under Section 8(a) of the Small Business Act (Page 19). In addition, small business firms owned and controlled by women have participated in NASA's procurement program and have received prime contract awards totalling \$73.0 million, while labor surplus area preference awards totalled \$15.2 million (Page 20).

During the year, all 50 states and the District of Columbia participated in NASA procurements over \$25,000. These larger awards went to 2,370 business firms in 47 states and the District of Columbia and to 526 universities and nonprofit organizations in 50 states and the District of Columbia (Page 34).

Note: In this report, all tables and charts present data on total procurements of the types specified in the respective sections. Where the information is limited, e.g., to contracts over \$25,000, such limitation is indicated by footnotes.

NASA PROCUREMENTS FOR FISCAL YEAR 1992

I. TOTAL PROCUREMENTS

Fiscal Year 1992 - NASA's procurements in Fiscal Year 1992 totalled \$13,478.2 million. This is \$319.2 million, or 2.4 percent more than in Fiscal Year 1991. The number of procurement actions totalled 111,800.

Trend, Fiscal Years 1988 - 1992 - The trend in procurement obligations versus total NASA obligations during the period Fiscal Years 1988-1992 is shown in terms of dollars and percentages in the table listed below.

PROCUREMENT OBLIGATIONS VS. TOTAL NASA OBLIGATIONS* FISCAL YEARS 1988 - 1992 (MILLIONS OF DOLLARS)

Fiscal Year	Total NASA Obligations	<u>Procurement Obligations</u>	
		Amount	% of Total Obligations
1992	\$15,150.0	\$13,478.2	89.0
1991	14,687.0	13,159.0	89.6
1990	13,955.3	12,565.2	90.0
1989	12,299.7	10,876.4	88.4
1988	10,873.1	9,545.1	87.8

*Total NASA obligations include salaries, benefits and travel of NASA employees.

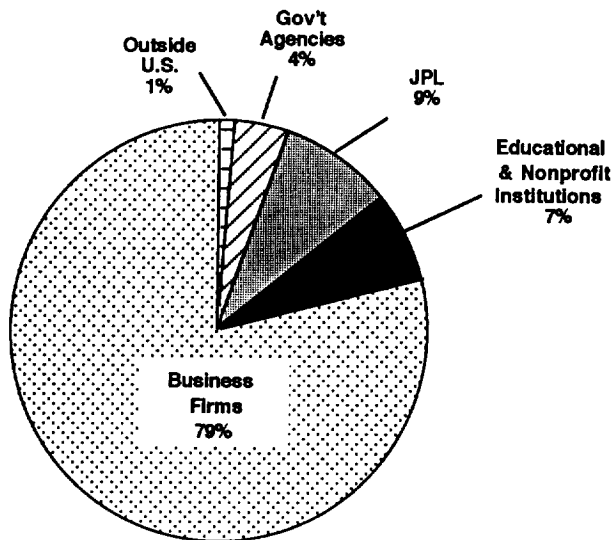
II. AWARDS BY TYPE OF CONTRACTOR

Fiscal Year 1992 - The distribution of NASA's procurement obligations is shown in Figure 1. Awards to business firms accounted for 79 percent of the total obligations. These awards totalled \$10,716.7 million, which is \$299.4 million or 2.9 percent more than in Fiscal Year 1991. Procurements placed through other Government agencies totalled \$498.6 million, \$194.8 million or 28.1 percent less than in Fiscal Year 1991. Awards, including grants and agreements, to educational and other nonprofit institutions totalled \$957.1 million, \$121.1 million or 14.5 percent more than in Fiscal Year 1991. Awards on contracts with California Institute of Technology for operations conducted by or through the Government-owned Jet Propulsion Laboratory amounted to \$1,229.6 million, \$90.0 million or 7.9 percent more than in Fiscal Year 1991. NASA awarded \$76.2 million outside the United States which was 4.8 percent more than in Fiscal Year 1991.

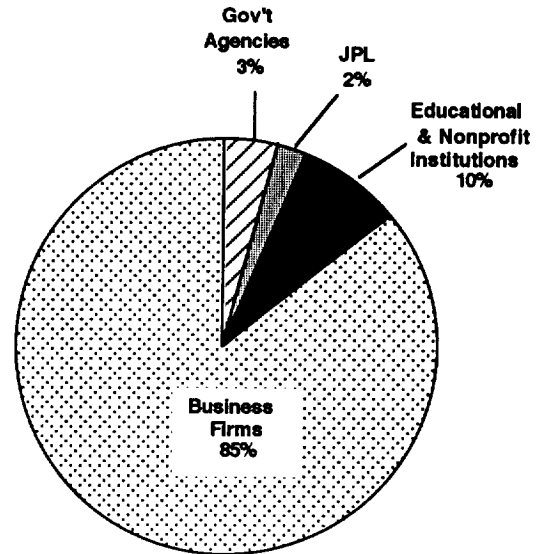
AWARDS BY TYPE OF CONTRACTOR

FISCAL YEAR 1992

AWARDS



ACTIONS



	(Millions)
Total	\$13,478.2
Business Firms	10,716.7
Educational Institutions	659.3
Nonprofit Organizations	297.8
JPL	1,229.6
Government Agencies	498.6
Outside United States	76.2

	(Thousands)
Total	111.8
Business Firms	94.8
Educational Institutions	8.2
Nonprofit Organizations	2.8
JPL	1.8
Government Agencies	3.8
Outside United States	0.4

Figure 1

Trend, Fiscal Years 1988 - 1992 - The trend in the distribution of NASA's direct procurements by type of contractor during the period Fiscal Years 1988-1992 is shown in terms of dollars and in percentages of total annual procurements in the table listed below.

AWARDS BY TYPE OF CONTRACTOR
FISCAL YEARS 1988 - 1992

	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992
<u>AWARDS IN MILLIONS</u>					
<u>TOTAL</u>	<u>\$9,545</u>	<u>\$10,876</u>	<u>\$12,565</u>	<u>\$13,159</u>	<u>\$13,478</u>
BUSINESS FIRMS	7,275	8,568	10,071	10,417	10,717
EDUCATIONAL	370	464	514	592	659
NONPROFIT	129	180	201	244	298
JPL	980	1,058	1,107	1,140	1,230
GOV'T AGENCIES	735	543	610	693	498
OUTSIDE U.S.	56	63	62	73	76
<u>PERCENT OF TOTAL</u>					
<u>TOTAL</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
BUSINESS FIRMS	76	79	80	79	79
EDUCATIONAL	4	4	4	4	5
NONPROFIT	1	2	2	2	2
JPL	10	10	9	9	9
GOV'T AGENCIES	8	5	5	5	4
OUTSIDE U.S.	1	*	*	1	1

*Less than .05 percent.

Appendix I shows distribution of NASA direct procurements by type of contractor for the period Fiscal Years 1961-1992 (See Page 42).

III. COMPETITION IN NASA AWARDS

A. Competition in Contracting Act

Full and open competition, with limited exceptions, is the required standard for procurements within the federal government in accordance with the Competition in Contracting Act (P.L. 98-369). Full and open competition means that all responsible sources are permitted to compete. The competitive procedures authorized for use in full and open competition are sealed bidding; competitive proposals (if sealed bidding is not appropriate); a combination of these procedures (such as two-step sealed bidding); and other competitive procedures expressly provided for, including architect-engineer procedures in accordance with Public Law 92-582, broad agency announcements for basic research proposals, and General Services Administration multiple award schedules.

Contracting without providing for full and open competition is provided for only under the following circumstances:

- (1) Only one responsible source exists and no other supplies or services will satisfy agency requirements;
- (2) Unusual and compelling urgency;
- (3) Industrial mobilization; or engineering, developmental, or research capability;
- (4) International agreement;
- (5) Statutory authorization or requirement;
- (6) National security; and,
- (7) Public interest.

Written justifications are required at NASA in order to award procurements on other than a full and open competition basis. The approvals for these justifications are as follows:

<u>Size of Procurement</u>	<u>Approving Official</u>
\$100,000 or less	A level above the contracting officer
\$100,000 - \$1 million	Center Competition Advocate
\$1 million - \$10 million	Center Director
Over \$10 million	NASA Procurement Executive

To enhance and promote competition and eliminate barriers to full and open competition, NASA has developed a competition advocacy program. In addition to appointing an agency competition advocate, a competition advocate has been designated at each NASA Center.

B. Reporting of Competition

Federal agencies are required to submit to Congress an annual report summarizing accomplishments of the agency's competition advocacy program during the past year. In addition, the report describes proposed actions for the current year to increase competition and reduce noncompetitive contract awards. For measuring competition statistics, awards to universities and nonprofit organizations, as well as awards to business, are included in the overall base. For the purpose of developing and reporting uniform competition statistics, all federal agencies use this common baseline.

The reporting of competition excludes from the base the following categories of procurement actions, for which there is no opportunity for competition:

- (1) Any procurements authorized or required by statute to be awarded to a designated source;
- (2) Awards under Section 8(a) of the Small Business Act, as amended;
- (3) Awards for utilities (excluding telecommunications) where there is no opportunity for competition;
- (4) Directed acquisitions for foreign governments;
- (5) Brand named products for authorized resale; and,
- (6) Other awards for which there is no opportunity for competition.

C. Competition During Fiscal Year 1992

Overall Competitive Performance - NASA's awards to business firms, educational institutions, and nonprofit organizations for Fiscal Year 1992 are shown in Figure 2. Of the total awards of \$10,877.3 million available for competition, \$8,660.9 million, or 79.6 percent, represents competed procurements; \$1,436.2 million, or

13.2 percent, represents follow-on procurements which were made to contractors that had been previously awarded competitive contracts; \$780.2 million, or 7.2 percent, constituted other than competitive procurements. It should also be noted that \$2,600.9 million in awards represented procurements that were not available for competition. These are the procurements identified above in the Reporting of Competition discussion. Also included in this category are grants, cooperative agreements, awards to other government agencies, small purchases not over \$2,500, and awards to the California Institute of Technology for operation of the Jet Propulsion Laboratory.

Competitive Procurements - Of the \$8,660.9 million in awards which were competed, \$699.1 million, or 8.1 percent of these awards, represented new contracts, and \$7,961.8 million, or 91.9 percent, were in-scope modifications (incremental funding actions and change orders) to contracts awarded on a competitive basis in prior years. Of the \$699.1 million in new awards, \$516.8 million, or 73.9 percent, were contracts awarded through negotiation; while \$182.3 million, or 26.1 percent, were awarded on the basis of sealed bidding. The preponderance of competitive awards made through the negotiation process reflects NASA's principal mission as a research and development agency. A significant portion of the procurements awarded through sealed bidding were for construction efforts.

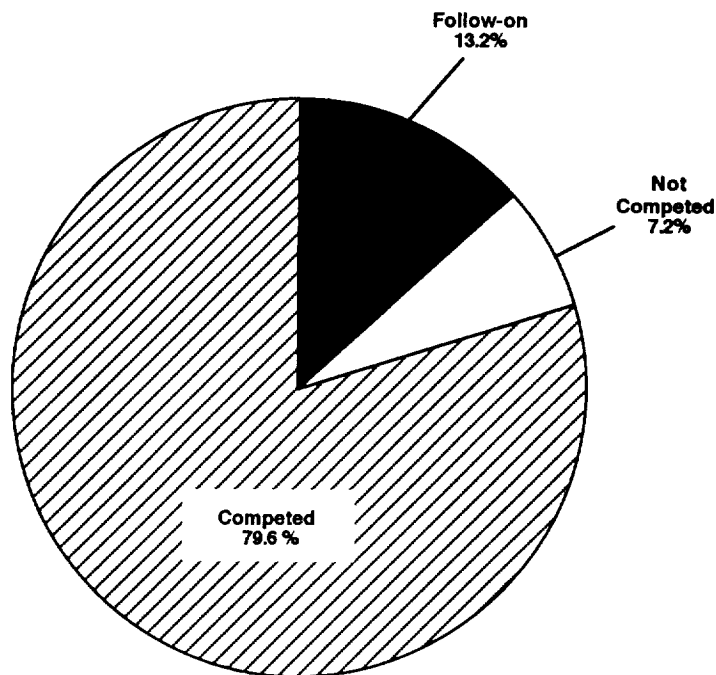
Noncompetitive Procurements - Of the \$780.2 million in noncompetitive awards, \$161.8 million, or 20.7 percent, represented new awards; whereas \$618.4 million, or 79.3 percent, constituted other than competitive modifications to contracts awarded in prior years. Awards in this category are supported by justifications for other than full and open competition.

Noncompetitive New Awards - Of the \$161.8 million in noncompetitive new awards, \$99.4 million were awards over \$25,000. Of these awards, the justifications for other than full and open competition for 80.8 percent, or \$80.3 million, in new noncompetitive awards were based on the first CICA exception indicated above, only one responsible source. The justifications for 11.4 percent, or \$11.3 million, in new noncompetitive awards were based on the second CICA exception, unusual or compelling urgency. The justification for an additional 3.4 percent, or \$3.4 million, in new noncompetitive awards were based on the fourth CICA exception, international agreement. The justifications for the remaining 4.4 percent of the new noncompetitive awards cited CICA exceptions 3, industrial mobilization; or 5, statutory authorization or requirement.

Follow-on Awards - In addition to the categories of competitive and noncompetitive awards, NASA awarded \$1,436.2 million in follow-ons to competitive procurements, of which \$6.8 million, represented new awards and \$1,429.4 million were modifications to existing contracts awarded in prior years.

COMPETITION IN NASA AWARDS

FISCAL YEAR 1992



	(Millions)	(Percent)
<u>Total Available for Competition *</u>	<u>\$10,877.3</u>	<u>100.0</u>
<u>Competed</u>	<u>8,660.9</u>	<u>79.6</u>
<u>New Awards</u>	<u>699.1</u>	<u>6.4</u>
Sealed Bids	182.3	1.7
Negotiated	516.8	4.7
<u>Modifications</u>	<u>7,961.8</u>	<u>73.2</u>
Sealed Bids	97.0	.9
Negotiated	7,864.8	72.3
<u>Not Competed</u>	<u>780.2</u>	<u>7.2</u>
<u>New Awards</u>	<u>161.8</u>	<u>1.5</u>
<u>Modifications</u>	<u>618.4</u>	<u>5.7</u>
<u>Follow-on</u>	<u>1,436.2</u>	<u>13.2</u>
<u>New Awards</u>	<u>6.8</u>	<u>.1</u>
<u>Modifications</u>	<u>1,429.4</u>	<u>13.1</u>

* The \$10,877.3 million does not include \$2,600.9 million in awards which were not available for competition.

Figure 2

IV. AWARDS TO BUSINESS FIRMS

A. Awards By Contract Type

Fiscal Year 1992 - Figure 3 categorizes Fiscal Year 1992 awards over \$25,000 to business firms by contract type.

Contracts and modifications to contracts having cost-plus-award-fee provisions with business firms accounted for 75 percent of the total dollars in Fiscal Year 1992, as compared to 76 percent in Fiscal Year 1991. Incentive contracts, both cost-plus and fixed-price, were 4 percent of the total dollars in Fiscal Year 1992, compared to 3 percent in Fiscal Year 1991. Firm-fixed-price contracts amounted to 10 percent of the total, and cost-plus-fixed-fee contracts represented 7 percent of the total in Fiscal Year 1992.

Trends, Fiscal Years 1988 - 1992 - The following table shows a 5-year trend in dollars and percent of total annual procurements to business firms by contract type. The large percentage of procurements which have award fee and incentive provisions resulted from major procurements for the Space Shuttle program. The increase in the percentage of award fee dollars in Fiscal Years 1988 through 1991 is primarily because of the award of major space station contracts. The decrease in the percentage of incentive fee contract dollars from Fiscal Year 1990 to Fiscal Year 1991 was a result of changing from the use of a cost-plus-incentive-fee to a cost-plus-award-fee contract for the procurement of the redesigned solid rocket motors for the space shuttle.

AWARDS TO BUSINESS FIRMS BY CONTRACT TYPE* FISCAL YEAR 1988 - 1992

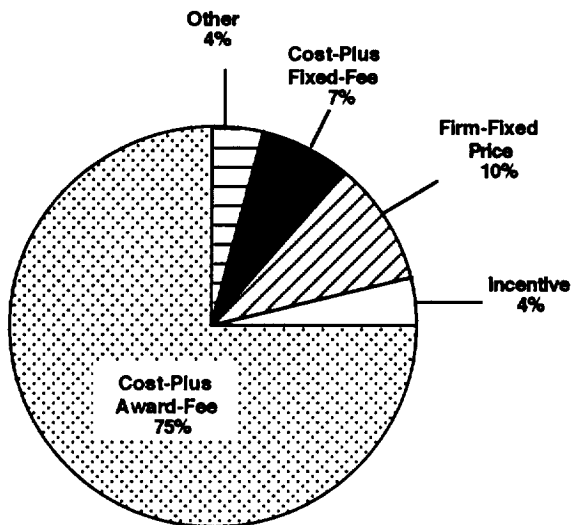
	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992
<u>AWARDS IN MILLIONS</u>					
<u>TOTAL BUSINESS</u>	<u>\$7,095</u>	<u>\$8,329</u>	<u>\$9,843</u>	<u>\$10,149</u>	<u>\$10,419</u>
FIRM-FIXED-PRICE	854	765	952	980	1,058
INCENTIVE	1,347	1,454	1,444	362	371
COST-PLUS-AWARD-FEE	4,007	5,190	6,478	7,693	7,865
COST-PLUS-FIXED-FEE	766	823	827	811	740
OTHER	121	97	142	303	385
<u>PERCENT OF TOTAL</u>					
<u>TOTAL BUSINESS</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
FIRM-FIXED-PRICE	12	9	10	10	10
INCENTIVE	19	18	15	3	4
COST-PLUS-AWARD-FEE	56	62	66	76	75
COST-PLUS-FIXED-FEE	11	10	8	8	7
OTHER	2	1	1	3	4

*Excludes smaller procurements, generally those of \$25,000 or less.

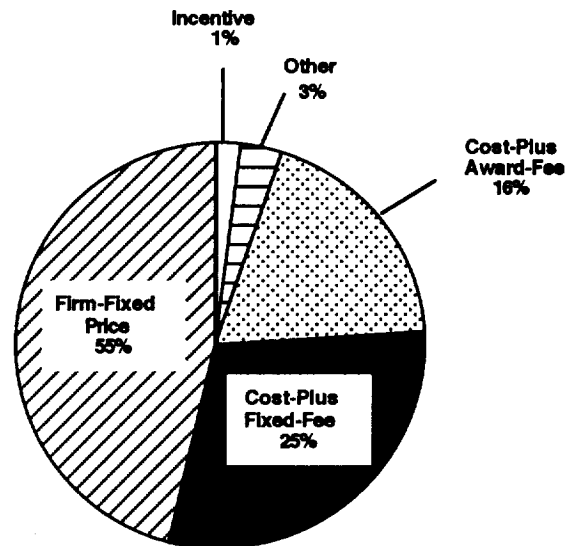
AWARDS BY CONTRACT TYPE DIRECT AWARDS TO BUSINESS FIRMS*

FISCAL YEAR 1992

AWARDS



ACTIONS



	(Millions)	Actions
Total	\$10,419.4	16,475
Firm-Fixed-Price	1,057.6	9,013
Incentive	371.2	151
Fixed-Price-Incentive	45.3	38
Cost-Plus-Incentive-Fee	325.9	113
Cost-Plus-Award -Fee	7,865.5	2,647
Cost-Plus-Fixed-Fee	740.3	4,168
Other	384.8	496
Fixed-Price-Redetermination	1.6	27
Economic Price Adjustment	64.8	25
Cost-No-Fee	289.1	181
Cost-Sharing	23.0	110
Labor-Hour	.9	35
Time and Material	5.4	118

* Excludes smaller procurements, generally those of \$25,000 or less and orders under GSA Federal Supply Schedule contracts.

Figure 3

B. Small Business Participation

Total Small Business - During Fiscal Year 1992, NASA direct awards to small business firms exceeded \$1 billion for the first time, totalling \$1,010.6 million. These awards constituted 9 percent of the total awards to business firms. The dollar awards to small business firms in Fiscal Year 1992 resulted from 69 thousand procurement actions, or 72 percent of the total number of actions placed with business firms (See Figure 4).

Share of New Contracts - The majority of NASA's direct awards to business firms involve large continuing research and development contracts for major systems and major items of hardware. Of the total new contract awards of \$670.2 million to business firms during Fiscal Year 1992, small business firms received \$314.6 million, or 46.9 percent which was more than double the percentage achieved in Fiscal Year 1991.

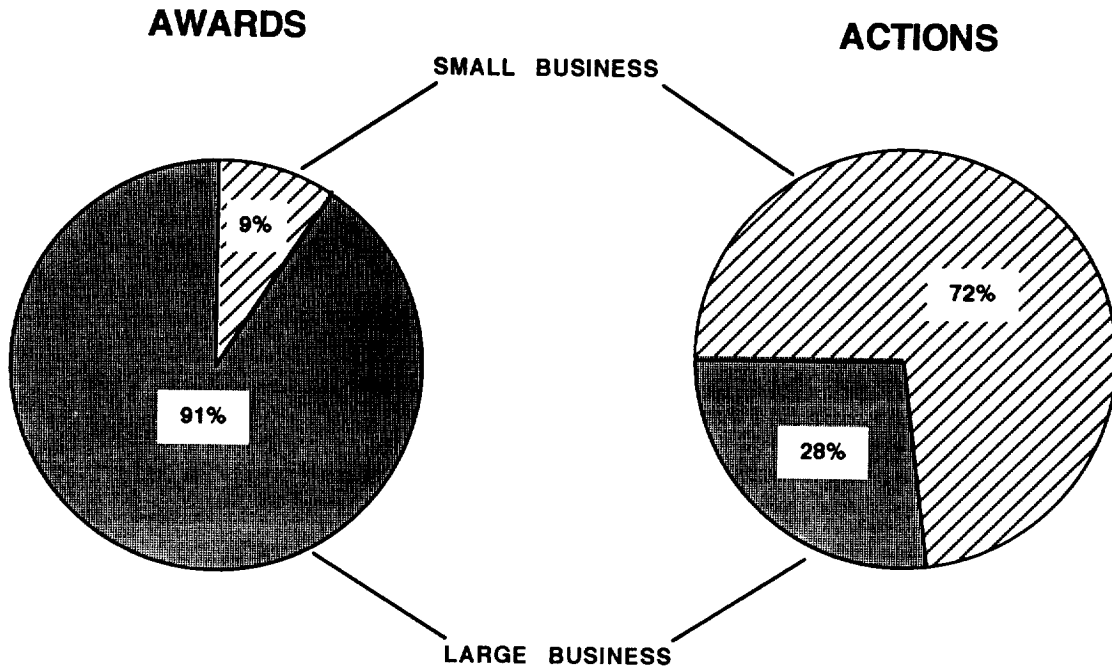
Share of Smaller Awards - Awards of \$25,000 or less to business firms during Fiscal Year 1992 totalled \$232.6 million. Of these smaller awards, small business firms received \$135.1 million, or 58 percent.

Extent of Maximum Possible Participation in New Awards - Assuming that the smaller awards represented new purchases, the total amount of new business awards in which small business could have participated was \$902.8 million, consisting of the \$670.2 million in new awards over \$25,000 and the \$232.6 million in awards of \$25,000 or less. Of this \$902.8 million in new business awards, small business received \$449.7 million, or 50 percent.

Small Business Set-Asides - Small business set-asides are defined as competitive awards which are limited only to small business. The small business set-aside program continues to exert a strong influence on the capability of small business firms to participate in the space program. In Fiscal Year 1992, these set-asides amounted to \$274.9 million, representing 27 percent of the total awards to small business and 3 percent of the total awards to all business firms.

SMALL BUSINESS PARTICIPATION

FISCAL YEAR 1992



	(Millions)
<u>Total</u>	<u>\$10,716.7</u>
Small Business	1,010.6*
Large Business	9,706.1

	(Thousands)
<u>Total</u>	<u>94.8</u>
Small Business	68.7
Large Business	26.1

* Includes \$232.1 million awarded to small disadvantaged firms under Authority of Section 8(a) of the Small Business Act. Also includes \$79.0 million awarded through the Small Business Innovation Research Program.

Figure 4

Small Business Innovation Research - The Small Business Innovation Development Act of 1982, P.L. 97-219, mandated that Federal agencies, whose extramural budgets for research or research and development exceeded a stated threshold, establish a Small Business Innovation Research Program. Statutory requirements are aimed at assisting small/small disadvantaged business participation in the objectives of the program: to stimulate technological innovation in the private sector; to strengthen the role of small business in meeting Federal research and development needs; to increase the commercialization of innovations derived from Federal research and development; and to encourage small disadvantaged business participation in technological innovation. During Fiscal Year 1992, NASA awarded 441 new SBIR contracts totalling \$44.7 million. Of this amount, 301 were Phase I awards totalling \$14.9 million and 140 were Phase II awards totalling \$29.8 million. Also in Fiscal Year 1992, NASA funded on-going Phase II contracts totalling \$34.3 million. Included in the total awards of \$79.0 million, 53 contracts, or \$6.6 million, are to small disadvantaged business firms.

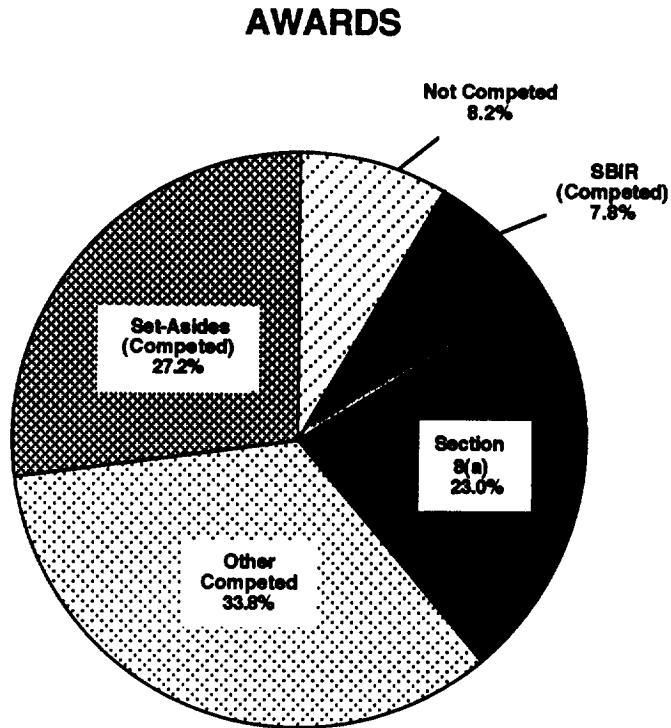
Representation Among NASA's 100 Largest Contractors - The 100 contractors that received the largest dollar value of NASA's direct awards to business firms are listed on Pages 22-26. Twenty of these contractors are small business firms and fourteen are disadvantaged firms.

C. Distribution of Small Business Awards

In addition to the \$274.9 million in small business set-asides and the \$79.0 million awarded through the Small Business Innovation Research Program, small business firms eligible for participation in the Section 8(a) Program received a total of \$232.1 million in such awards. Also, small business firms received \$342.0 million in other competitive awards and \$82.6 million in procurement awards which were not competed (See Figure 5).

DISTRIBUTION OF SMALL BUSINESS AWARDS

FISCAL YEAR 1992



	(Millions)
<u>Total Small Business</u>	<u>\$1,010.6</u>
Set-Asides	274.9
Section 8(a)	232.1
SBIR	79.0
Other Competed	342.0
Not Competed	82.6

Figure 5

Trend, Fiscal Years 1988 - 1992 - Prime Contract Awards. The table below shows the extent of small business participation in NASA's procurements for the period Fiscal Years 1988 - 1992.

SMALL BUSINESS PARTICIPATION
FISCAL YEARS 1988 - 1992
(MILLIONS OF DOLLARS)

	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992
<u>TOTAL BUSINESS</u>	<u>\$7,275</u>	<u>\$8,568</u>	<u>\$10,072</u>	<u>\$10,417</u>	<u>\$10,717</u>
<u>SMALL BUSINESS*</u>	<u>\$801</u>	<u>\$857</u>	<u>\$924</u>	<u>\$968</u>	<u>\$1,011</u>
% OF TOTAL	11.0%	10.0%	9.2%	9.3%	9.4%
<u>SET-ASIDES</u>	<u>\$326</u>	<u>\$323</u>	<u>\$307</u>	<u>\$324</u>	<u>\$275</u>
% OF TOTAL	4.5%	3.8%	3.1%	3.1%	2.6%
% OF SMALL	40.7%	37.6%	33.2%	33.5%	27.2%

*Includes awards placed under Authority of Section 8(a) of the Small Business Act and through the Small Business Innovation Research Program.

Appendix III shows NASA direct awards to small business firms for the period Fiscal Years 1961-1992 (See Page 50).

D. Small Disadvantaged Business Participation

NASA's prime contracts with small disadvantaged business firms in awarding procurements during Fiscal Year 1992 totalled \$280.5 million. The tabulation shown below indicates that NASA has made continuing efforts to increase disadvantaged business participation in NASA's procurements through direct awards and awards placed under the provisions of Section 8(a) of the Small Business Act. Support service contract awards have also been expanded to a variety of technical services and research and development efforts as well as other services. Awards subcontracted to small disadvantaged business firms were not available at the time of publication.

Public Laws 101-144 and 101-507 mandated that NASA establish a goal of awarding at least 8 percent of the value of its prime and subcontracts to small disadvantaged business firms and Historically Black Colleges and Universities. NASA has developed a plan for achieving the prescribed goal by Fiscal Year 1994.

SMALL DISADVANTAGED
BUSINESS PRIME CONTRACT AWARDS
FISCAL YEARS 1988 - 1992
(MILLIONS OF DOLLARS)

Fiscal Year	Total Awards To Disadvantaged Business	Direct Awards*	Section 8(a) Awards
1992	\$280.5	\$48.4	\$232.1
1991	295.8	70.2	225.6
1990	293.7	81.0	212.7
1989	275.0	90.3	184.7
1988	263.1	90.5	172.6

*Includes disadvantaged direct awards through the Small Business Innovation Research Program. Excludes orders against federal supply contracts.

E. Women-Owned Small Business Participation

In accordance with Executive Order 12138, Women's Business Enterprise, NASA extends a particular effort to ensure that business firms owned and controlled by women have an equitable opportunity to participate in NASA's Procurement Program. In Fiscal Year 1992, women-owned small business firms received prime contract awards totalling \$73.0 million.

F. Labor Surplus Preference

It is NASA policy to assist labor surplus area concerns to an extent consistent with procurement objectives and regulations. NASA awards set-aside procurements which ensure that a significant part of the work will be performed in designated labor surplus areas. During Fiscal Year 1992, labor surplus area preference awards totalled \$15.2 million.

G. Awards by Type of Effort

During Fiscal Year 1992, \$10,484.2 million was awarded to business firms in support of effort in research and development, services, and supplies and equipment procurements. A breakout of these awards by category is shown below:

<u>Category</u>	<u>Number of Contracts</u>	<u>Total (Millions)</u>
<u>Total</u>	<u>5,227</u>	<u>\$10,484.2*</u>
<u>Research & Development</u>	<u>1,883</u>	<u>3,247.5</u>
Aeronautics & Space Technology	700	1,043.5
Space Science & Applications	475	432.9
Space Flight	109	585.9
Space Operations	41	312.4
Commercial Programs	60	55.2
Space Station	18	473.4
Other Space R&D	417	331.3
Other R&D	63	12.9
<u>Services</u>	<u>1,535</u>	<u>4,208.6</u>
ADP & Telecommunication	134	403.0
Maint., Repair & Rebuildg. of Equip.	186	1,109.5
Operation of Gov't-owned Facilities	49	418.4
Professional, Admin. & Mgmt Support	225	1,233.5
Utilities & Housekeeping	98	210.1
Constr. of Structures & Facilities	169	353.1
Maint., Repair, Alter. of Real Prop.	343	174.1
Other Services	331	306.9
<u>Supplies & Equipment</u>	<u>1,809</u>	<u>3,028.1</u>
Ammunition & Explosives	12	326.1
Space Vehicles	32	1,463.9
Engines, Turbines & Components	19	911.7
Materials Handling Equipment	13	11.0
Communication, Detection & Coherent Radiation Equipment	116	18.9
Instruments & Laboratory Equipment	434	32.0
ADP Equipment, Software, Supplies & Support Equipment	648	177.1
Fuels, Lubricants, Oils & Waxes	19	24.5
Other Supplies & Equipment	516	62.9

*Excludes smaller procurements, generally those of \$25,000 of less.

H. One Hundred Principal Contractors (Business Firms)

The one hundred contractors that received the largest dollar value of NASA direct awards to business firms during Fiscal Year 1992 are shown below. The awards to these contractors accounted for 90 percent of the direct awards to business firms during the year. The smallest aggregate award to any contractor was in excess of \$7.5 million. Of the one hundred contractors, 20 were small business firms and 14 were disadvantaged firms at the time of award.

ONE HUNDRED CONTRACTORS (BUSINESS FIRMS) LISTED ACCORDING TO TOTAL AWARDS RECEIVED

FISCAL YEAR 1992

(S=Small Business/D=Disadvantaged Business)

CONTRACTOR & PRINCIPAL PLACE OF CONTRACT PERFORMANCE	AWARDS	
	(THOUSANDS)	PERCENT
<u>TOTAL AWARDS TO BUSINESS FIRMS</u>	<u>\$10,716,743</u>	<u>100.00</u>
1. ROCKWELL INTERNATIONAL CORP Canoga Park, CA	1,449,346	13.52
2. MCDONNELL DOUGLAS CORP Huntington Beach, CA	1,045,418	9.75
3. LOCKHEED SPACE OPERATIONS CO Kennedy Space Center, FL	599,213	5.59
4. LOCKHEED MISSILES & SPACE CO Marshall Space Flight, AL	530,153	4.95
5. THIOKOL CORP Brigham City, UT	510,292	4.76
6. BOEING CO Marshall Space Flight, AL	500,115	4.67
7. MARTIN MARIETTA CORP New Orleans, LA	444,799	4.15
8. ROCKWELL SPACE OPERATIONS INC Houston, TX	345,886	3.23
9. GENERAL ELECTRIC CO King of Prussia, PA	299,400	2.79
10. LOCKHEED ENGRG & SCIENCE CO Houston, TX	269,905	2.52
11. COMPUTER SCIENCES CORP Greenbelt, MD	232,354	2.17
12. E G & G FLORIDA INC Kennedy Space Center, FL	212,843	1.99
13. U S B I BOOSTER PRODUCTION CO Huntsville, AL	207,274	1.93
14. T R W INC Redondo Beach, CA	194,369	1.81
15. BENDIX FIELD ENGINEERING CORP Greenbelt, MD	180,926	1.69
16. LORAL AEROSPACE CORP Houston, TX	140,521	1.31

ONE HUNDRED CONTRACTORS (BUSINESS FIRMS) LISTED
 ACCORDING TO TOTAL AWARDS RECEIVED (CONT'D)
 FISCAL YEAR 1992
 (S=Small Business/D=Disadvantaged Business)

CONTRACTOR & PRINCIPAL PLACE OF CONTRACT PERFORMANCE		AWARDS (THOUSANDS)	PERCENT
17.	BOEING COMPUTER SUPPORT SERVICES Marshall Space Flight, AL	\$139,816	1.30
18.	UNITED TECHNOLOGIES CORP West Palm Beach, FL	135,840	1.27
19.	SVERDRUP TECHNOLOGY INC Middleburgh Heights, OH	109,444	1.02
20.	GRUMMAN AEROSPACE CORP Reston, VA	103,250	.96
21.	SPACE SYSTEMS LORAL INC San Jose, CA	94,944	.89
22.	JOHNSON CONTROLS WORLD SERV Stennis Space Center, MS	76,139	.71
23.	INTERNATIONAL BUSINESS MACHINES Houston, TX	76,085	.71
24.	CAE LINK CORP Houston, TX	61,467	.57
25.	HARRIS SPACE SYSTEMS CORP Rockledge, FL	60,099	.56
26.	BAMSI INC (D) Marshall Space Flight, AL	58,739	.55
27.	ORBITAL SCIENCES CORP (S) Denver, CO	55,631	.52
28.	TELEDYNE INDUSTRIES INC Marshall Space Flight, AL	53,863	.50
29.	G T E GOVERNMENT SYSTEMS CORP Gaithersburg, MD	49,687	.46
30.	BALL CORP Boulder, CO	49,345	.46
31.	GENERAL DYNAMICS CORP San Diego, CA	49,058	.46
32.	N S I TECHNOLOGY SERVICES CORP Greenbelt, MD	46,947	.44
33.	STERLING FEDERAL SYSTEMS INC Moffett Field, CA	43,579	.41
34.	BIONETICS CORP Marshall Space Flight, AL	43,174	.40
35.	CRAY RESEARCH INC Chippewa Falls, WI	42,977	.40
36.	P R C INC Washington, DC	41,267	.39
37.	S T SYSTEMS CORP (D) Greenbelt, MD	40,713	.38
38.	SPACEHAB CORP (S) Washington, DC	37,886	.35

ONE HUNDRED CONTRACTORS (BUSINESS FIRMS) LISTED
 ACCORDING TO TOTAL AWARDS RECEIVED (CONT'D)
 FISCAL YEAR 1992
 (S=Small Business/D=Disadvantaged Business)

CONTRACTOR & PRINCIPAL PLACE OF CONTRACT PERFORMANCE		AWARDS (THOUSANDS)	PERCENT
39.	METRIC CONSTRUCTORS INC Kennedy Space Center, FL	\$35,596	.33
40.	RAYTHEON SERVICE CO Annapolis Junction, MD	33,847	.32
41.	SANTA BARBARA RESEARCH CENTER Goleta, CA	32,367	.30
42.	FAIRCHILD INDUSTRIES INC Germantown, MD	31,709	.30
43.	CORTEZ III SERVICE CORP (D) Cleveland, OH	31,283	.29
44.	ANALEX CORP Fairview Park, OH	27,475	.26
45.	AEROJET GENERAL CORP Azusa, CA	26,949	.25
46.	SCIENCE APPLICATION INTL CORP San Diego, CA	26,658	.25
47.	CALSPAN CORP Moffett Field, CA	26,286	.25
48.	KRUG LIFE SCIENCES INC Houston, TX	24,892	.23
49.	NORTHROP WORLDWIDE AIRCRAFT Houston, TX	22,208	.21
50.	AIR PRODUCTS & CHEMICALS INC Allentown, PA	21,438	.20
51.	PARAMAX SYSTEMS CORP Greenbelt, MD	21,082	.20
52.	SWALES & ASSOCIATES INC (S) Greenbelt, MD	20,690	.19
53.	GRUMMAN DATA SYSTEMS CORP Houston, TX	19,013	.18
54.	E E R SYSTEMS CORP (S) (D) Beltsville, MD	18,382	.17
55.	UNISYS GOVERNMENT SYSTEMS INC Hampton, VA	17,567	.16
56.	BLAKE CONSTRUCTION CO INC Greenbelt, MD	17,501	.16
57.	LOCKHEED CORP Burbank, CA	16,993	.16
58.	OGDEN LOGISTICS SERVICES Greenbelt, MD	16,897	.16
59.	SILICON GRAPHICS INC Mountain View, CA	16,381	.15
60.	JACKSON & TULL INC (S) (D) Greenbelt, MD	15,860	.15

ONE HUNDRED CONTRACTORS (BUSINESS FIRMS) LISTED
 ACCORDING TO TOTAL AWARDS RECEIVED (CONT'D)
 FISCAL YEAR 1992
 (S=Small Business/D=Disadvantaged Business)

CONTRACTOR & PRINCIPAL PLACE OF CONTRACT PERFORMANCE		AWARDS	
		(THOUSANDS)	PERCENT
61.	C B I SERVICES INC Moffett Field, CA	\$15,238	.14
62.	QUAD S CO Moffett Field, CA	(S) 15,162	.14
63.	SPACE TRANSPORTATION PRO TEAM Huntsville, AL	14,760	.14
64.	CLEVELAND ELECTRIC ILLUMINATING Cleveland, OH	14,627	.14
65.	FERGUSON M K CO Cleveland, OH	14,559	.14
66.	MICRO CRAFT INC Hampton, VA	(S) 14,555	.14
67.	HERNANDEZ ENGINEERING INC Houston, TX	(S) (D) 14,109	.13
68.	ENGINEERING DESIGN GROUP INC Cleveland, OH	(S) 13,856	.13
69.	WYLE LABORATORIES Hampton, VA	13,148	.12
70.	VIRGINIA ELECTRIC & POWER CO Hampton, VA	12,835	.12
71.	DIGITAL EQUIPMENT CORP Moffett Field, CA	12,800	.12
72.	R M S TECHNOLOGIES INC Cleveland, OH	(D) 12,730	.12
73.	F D SERVICES INC Houston, TX	12,677	.12
74.	JOHNSON ENGINEERING CORP Houston, TX	(S) 12,389	.12
75.	PERKIN ELMER CORP Pomona, CA	12,304	.11
76.	BOOZ ALLEN & HAMILTON INC Bethesda, MD	11,814	.11
77.	COLEJON MECHANICAL CORP Cleveland, OH	(D) 11,750	.11
78.	HUGHES DANBURY OPTICAL SYS Danbury, CT	11,695	.11
79.	STERLING ZERO ONE INC Moffett Field, CA	(S) 11,640	.11
80.	ADVANCED COMPUTER SYSTEMS INC Greenbelt, MD	(S) (D) 11,106	.10
81.	B D M INTERNATIONAL INC Washington, DC	10,939	.10

ONE HUNDRED CONTRACTORS (BUSINESS FIRMS) LISTED
 ACCORDING TO TOTAL AWARDS RECEIVED (CONT'D)
 FISCAL YEAR 1992
 (S=Small Business/D=Disadvantaged Business)

CONTRACTOR & PRINCIPAL PLACE OF CONTRACT PERFORMANCE		AWARDS	
		(THOUSANDS)	PERCENT
82.	GENERAL ELECTRIC U T C JV Evendale, OH	\$10,924	.10
83.	COMPUTER SCIENCES PAN AM SERV Slidell, LA	10,596	.10
84.	ALLIED SIGNAL INC Tempe, AZ	9,942	.09
85.	GOVERNMENT MICRO RESOURCES Chantilly, VA	(S) (D) 9,865	.09
86.	FAIRCHILD SPACE & DEF CORP Greenbelt, MD	9,519	.09
87.	ANALYTICAL SERVICES & MAT INC Hampton, VA	(S) (D) 9,293	.09
88.	RECOM TECHNOLOGIES INC Moffett Field, CA	(S) (D) 9,180	.09
89.	MASON & HANGER SERVICES INC Hampton, VA	9,166	.09
90.	EDERER INC Seattle, WA	(S) 8,821	.08
91.	TAFT BROADCASTING CO HOUSTON Houston, TX	(S) 8,716	.08
92.	VITRO CORP Washington, DC	8,633	.08
93.	L T V AEROSPACE & DEFENSE CO Dallas, TX	8,424	.08
94.	BOEING AEROSPACE OPERATIONS INC Moffett Field, CA	8,331	.08
95.	I NET INC Kennedy Space Center, FL	(S) (D) 8,122	.08
96.	HUGHES AIRCRAFT CO El Segundo, CA	7,869	.07
97.	NYMA INC Greenbelt, MD	(S) (D) 7,747	.07
98.	STANFORD TELECOMMUNICATIONS Reston, VA	(S) 7,734	.07
99.	KELSEY SEYBOLD CLINIC Houston, TX	7,704	.07
100.	CENTENNIAL CONTRACTORS ENTPR Greenbelt, MD	7,511	.07
	OTHER*	1,122,115	10.47

*Includes other awards over \$25,000 and smaller procurements of \$25,000 or less.

V. AWARDS TO EDUCATIONAL AND OTHER NONPROFIT INSTITUTIONS*

A. Distribution by Type of Institution and Award

During Fiscal Year 1992, \$957.1 million was awarded to educational and other nonprofit institutions. Of this amount, \$659.3 million was awarded to educational institutions and \$297.8 million to other nonprofit organizations. A breakout of these awards between contracts, grants and agreements is shown below:

Type of Award	Total (Millions)	Educational Institutions (Millions)	Nonprofit Organizations (Millions)
<u>Total</u>	<u>\$957.1</u>	<u>\$659.3*</u>	<u>\$297.8</u>
Contracts	394.4	197.8	196.6
Grants	475.5	402.3	73.2
Agreements	87.2	59.2	28.0

*Excludes JPL.

B. One Hundred Principal Educational & Nonprofit Institutions*

The one hundred educational and nonprofit institutions that received the largest dollar value of NASA awards during Fiscal Year 1992 are shown on Pages 28-32.

The awards to these institutions accounted for 89 percent of the total awards to educational and nonprofit institutions during the period. Seventy-nine of the top 100 were educational institutions; 21 were nonprofit organizations.

*Excludes JPL.

ONE HUNDRED EDUCATIONAL AND NONPROFIT INSTITUTIONS
LISTED ACCORDING TO TOTAL AWARDS RECEIVED*
FISCAL YEAR 1992
(N=Nonprofit Institution)

INSTITUTION & PRINCIPAL PLACE OF PERFORMANCE		AWARDS (THOUSANDS) PERCENT	
<u>TOTAL AWARDS TO EDUCATIONAL & NONPROFIT INSTITUTIONS</u>		<u>\$957,085</u>	<u>100.00</u>
1.	STANFORD UNIV Stanford, CA	53,963	5.64
2.	ASSN UNIV RESEARCH & ASTRON Baltimore, MD	(N) 47,539	4.97
3.	SMITHSONIAN INSTITUTION Cambridge, MA	(N) 38,293	4.00
4.	MASS INSTITUTE TECHNOLOGY Cambridge, MA	37,085	3.88
5.	UNIVERSITIES SPACE RESEARCH Greenbelt, MD	(N) 31,908	3.33
6.	UNIV CALIF BERKELEY Berkeley, CA	24,497	2.56
7.	C I E S I N Ann Arbor, MI	(N) 23,815	2.49
8.	MITRE CORP Houston, TX	(N) 21,026	2.20
9.	UNIV CALIF SAN DIEGO La Jolla, CA	20,950	2.19
10.	UNIV MARYLAND COLLEGE PARK College Park, MD	20,935	2.19
11.	UNIV ARIZONA Tucson, AZ	18,994	1.99
12.	UNIV COLORADO BOULDER Boulder, CO	18,919	1.98
13.	U T CALSPAN CENTER AEROSPACE RES Tullahoma, TN	(N) 18,750	1.96
14.	NATIONAL ACADEMY SCIENCES Washington, DC	(N) 17,852	1.87
15.	UNIV ALABAMA HUNTSVILLE Huntsville, AL	16,578	1.73
16.	CHARLES STARK DRAPER LAB INC Cambridge, MA	(N) 16,561	1.73
17.	NEW MEXICO STATE UNIV LAS CRUCES Palestine, TX	16,491	1.72
18.	UNIV WISCONSIN MADISON Madison, WI	13,888	1.45
19.	PENNSYLVANIA STATE UNIV UP University Park, PA	12,687	1.33
20.	UNIV MICHIGAN ANN ARBOR Ann Arbor, MI	11,899	1.24

ONE HUNDRED EDUCATIONAL AND NONPROFIT INSTITUTIONS
LISTED ACCORDING TO TOTAL AWARDS RECEIVED* (CONT'D)
FISCAL YEAR 1992
(N=Nonprofit Institution)

INSTITUTION & PRINCIPAL PLACE OF PERFORMANCE		AWARDS	
		(THOUSANDS)	PERCENT
21.	CALIF INSTITUTE TECHNOLOGY Pasadena, CA	\$11,477	1.20
22.	UTAH STATE UNIV Logan, UT	11,437	1.20
23.	UNIV NEW HAMPSHIRE Durham, NH	10,102	1.06
24.	UNIV IOWA Iowa City, IA	9,381	.98
25.	SOUTHWEST RESEARCH INSTITUTE (N) San Antonio, TX	9,145	.96
26.	UNIV WASHINGTON Seattle, WA	9,113	.95
27.	CORNELL UNIV Ithaca, NY	8,726	.91
28.	S E T I INSTITUTE (N) Moffett Field, CA	8,573	.90
29.	UNIV ALASKA FAIRBANKS Fairbanks, AK	8,552	.89
30.	UNIV CALIF LOS ANGELES Los Angeles, CA	8,330	.87
31.	UNIV TEXAS AUSTIN Austin, TX	8,127	.85
32.	JOHNS HOPKINS UNIV Baltimore, MD	8,027	.84
33.	SAN JOSE STATE UNIV Moffett Field, CA	7,752	.81
34.	UNIV HAWAII Honolulu, HI	7,631	.80
35.	UNIV VIRGINIA Charlottesville, VA	7,344	.77
36.	CASE WESTERN RESERVE UNIV Cleveland, OH	7,081	.74
37.	WHEELING JESUIT COLLEGE Wheeling, WV	6,956	.73
38.	UNIV HOUSTON Houston, TX	6,918	.72
39.	UNIV CHICAGO Chicago, IL	6,474	.68
40.	COLUMBIA UNIV New York, NY	6,416	.67
41.	UNIV HOUSTON CLEAR LAKE Houston, TX	6,307	.66

ONE HUNDRED EDUCATIONAL AND NONPROFIT INSTITUTIONS
LISTED ACCORDING TO TOTAL AWARDS RECEIVED* (CONT'D)
FISCAL YEAR 1992
(N=Nonprofit Institution)

INSTITUTION & PRINCIPAL PLACE OF PERFORMANCE		AWARDS	
		<u>(THOUSANDS)</u>	<u>PERCENT</u>
42.	OKLAHOMA STATE UNIV Stillwater, OK	\$6,182	.65
43.	BATTELLE MEMORIAL INSTITUTE Columbus, OH	(N) 5,980	.63
44.	OHIO AEROSPACE INSTITUTE Brookpark, OH	(N) 5,747	.60
45.	TEXAS A & M UNIV College Station, TX	5,656	.59
46.	HARVARD UNIV Cambridge, MA	5,258	.55
47.	PRINCETON UNIV Princeton, NJ	5,207	.54
48.	AUBURN UNIV AUBURN Auburn, AL	5,104	.53
49.	CARNEGIE MELLON UNIV Pittsburgh, PA	4,775	.50
50.	UNIV CALIF SANTA BARBARA Santa Barbara, CA	4,685	.49
51.	OREGON STATE UNIV Corvallis, OR	4,579	.48
52.	ELORET INSTITUTE Moffett Field, CA	(N) 4,452	.47
53.	OHIO STATE UNIV Columbus, OH	4,434	.46
54.	UNIV ALABAMA BIRMINGHAM Birmingham, AL	4,255	.44
55.	VIRGINIA POLYTECHNIC INSTITUTE Blacksburg, VA	4,084	.43
56.	NORTH CAROLINA STATE UNIV Raleigh, NC	4,070	.43
57.	OLD DOMINION UNIV Norfolk, VA	3,955	.41
58.	UNIV FLORIDA Gainesville, FL	3,867	.40
59.	WASHINGTON UNIV ST LOUIS St. Louis, MO	3,829	.40
60.	PURDUE UNIV West Lafayette, IN	3,751	.39
61.	UNIV ILLINOIS URBANA Urbana, IL	3,653	.38
62.	GEORGIA INSTITUTE TECHNOLOGY Atlanta, GA	3,610	.38

ONE HUNDRED EDUCATIONAL AND NONPROFIT INSTITUTIONS
LISTED ACCORDING TO TOTAL AWARDS RECEIVED* (CONT'D)
FISCAL YEAR 1992
(N=Nonprofit Institution)

INSTITUTION & PRINCIPAL PLACE OF PERFORMANCE			AWARDS	
			(THOUSANDS)	PERCENT
63.	AMERICAN INSTIT AERO & ASTRO New York, NY	(N)	\$3,441	.36
64.	CLEVELAND STATE UNIV Cleveland, OH		3,435	.36
65.	WEST VIRGINIA UNIV Morgantown, WV		3,397	.36
66.	UNIV SOUTHERN CALIF Los Angeles, CA		3,389	.35
67.	HAMPTON CITY Hampton, VA	(N)	3,345	.35
68.	RESEARCH TRIANGLE INSTITUTE Hampton, VA	(N)	3,333	.35
69.	COLORADO STATE UNIV Fort Collins, CO		3,271	.34
70.	MCAT INSTITUTE Moffett Field, CA	(N)	3,065	.32
71.	UNIV CALIF IRVINE Irvine, CA		3,022	.32
72.	GEORGE WASHINGTON UNIV Washington, DC		3,007	.31
73.	UNIV MINNESOTA MINNPL ST PAUL Minneapolis, MN		2,924	.31
74.	NORTH CAROLINA A & T STATE UNIV Greensboro, NC		2,883	.30
75.	UNIV IDAHO Moscow, ID		2,785	.29
76.	RENSSELAER POLY INST NEW YORK Troy, NY		2,621	.27
77.	UNIV CORP ATMOSPHERIC RESEARCH Boulder, CO	(N)	2,597	.27
78.	ARIZONA STATE UNIV Tempe, AZ		2,459	.26
79.	S R I INTERNATIONAL CORP Menlo Park, CA	(N)	2,407	.25
80.	UNIV TEXAS DALLAS Dallas, TX		2,359	.25
81.	HOWARD UNIV Washington, DC		2,318	.24
82.	RICE UNIV Houston, TX		2,294	.24
83.	UNIV MIAMI Miami, FL		2,263	.24

ONE HUNDRED EDUCATIONAL AND NONPROFIT INSTITUTIONS
LISTED ACCORDING TO TOTAL AWARDS RECEIVED* (CONT'D)
FISCAL YEAR 1992
(N=Nonprofit Institution)

INSTITUTION & PRINCIPAL PLACE OF PERFORMANCE		AWARDS	
		(THOUSANDS)	PERCENT
84.	UNIV CINCINNATI Cincinnati, OH	\$2,213	.23
85.	FLORIDA STATE UNIV Tallahassee, FL	2,206	.23
86.	HAMPTON UNIV Hampton, VA	2,163	.23
87.	FLORIDA A & M UNIV Tallahassee, FL	2,137	.22
88.	AEROSPACE CORP Ann Arbor, MI	(N) 2,125	.22
89.	ENVIRONMENTAL RES INSTITUTE MICH Ann Arbor, MI	(N) 2,057	.22
90.	UNIV CALIF DAVIS Davis, CA	2,044	.21
91.	BOSTON UNIV Boston, MA	2,022	.21
92.	UNIV TOLEDO Toledo, OH	1,960	.20
93.	CLARKSON UNIV Potsdam, NY	1,947	.20
94.	UNIV PITTSBURGH Pittsburgh, PA	1,940	.20
95.	VANDERBILT UNIV Irvine, CA	1,931	.20
96.	FLORIDA ATLANTIC UNIV Boca Raton, FL	1,739	.18
97.	UNIV CENTRAL FLORIDA Orlando, FL	1,684	.18
98.	MOREHOUSE COLLEGE Atlanta, GA	1,673	.17
99.	UNIV ROCHESTER Rochester, NY	1,650	.17
100.	COLLEGE WILLIAM & MARY Williamsburg, VA	1,645	.17
OTHER**		109,702	11.46

*Excludes JPL.

**Includes other awards over \$25,000 and smaller procurements of \$25,000 or less.

VI. CONTRACT FOR OPERATION OF JET PROPULSION LABORATORY

The Jet Propulsion Laboratory (JPL) is a Government-owned research and development facility, operated for NASA by the California Institute of Technology. The Laboratory carries out research programs and flight projects and conceives and executes advanced development and experimental engineering investigations to further the technology required for the Nation's space program. The primary emphasis of the Laboratory's effort is on the carrying out of unmanned lunar, planetary and deep-space scientific missions.

Net awards during Fiscal Year 1992 totalled \$1,229.6 million. Of this amount, JPL awarded \$635.2 million as subcontracts or purchases with business firms.

VII. AWARDS THROUGH OTHER GOVERNMENT AGENCIES

During Fiscal Year 1992, \$498.6 million was awarded through other Government agencies. The following table shows the distribution of these awards by agency.

AWARDS THROUGH OTHER GOVERNMENT AGENCIES FISCAL YEAR 1992

<u>AGENCY</u>	<u>MILLIONS</u>	<u>% OF TOTAL</u>
<u>TOTAL</u>	<u>\$498.6</u>	<u>100.0</u>
<u>OVER \$25,000</u>	<u>384.2</u>	<u>77.1</u>
AIR FORCE	191.3	38.4
ENERGY DEPARTMENT	57.5	11.5
NAVY	39.7	8.0
ARMY	27.9	5.6
NATIONAL SCIENCE FOUNDATION	15.6	3.1
INTERIOR DEPARTMENT	13.8	2.8
COMMERCE DEPARTMENT	13.1	2.6
DEFENSE DEPARTMENT	7.3	1.5
OTHER GOV'T AGENCIES	18.0	3.6
<u>\$25,000 AND UNDER</u>	<u>114.4</u>	<u>22.9</u>

VIII. U. S. GEOGRAPHICAL DISTRIBUTION OF AWARDS

In Fiscal Year 1992, 50 states and the District of Columbia participated in NASA's direct awards over \$25,000. These larger awards were distributed among 11,321 contracts and went to 2,896 different organizations in 1,010 different cities. Of the 2,896 organizations, 2,370 are business firms located in 836 cities in 47 states and the District of Columbia; 526 are educational and nonprofit institutions located in 341 cities in 50 states and the District of Columbia (See Page 35). The distribution of awards are also shown by region (See Page 36).

The categorization of NASA procurements by state is based on the location where the items are to be produced or supplied from stock; where the services will be performed; or with respect to construction contracts, the construction site.

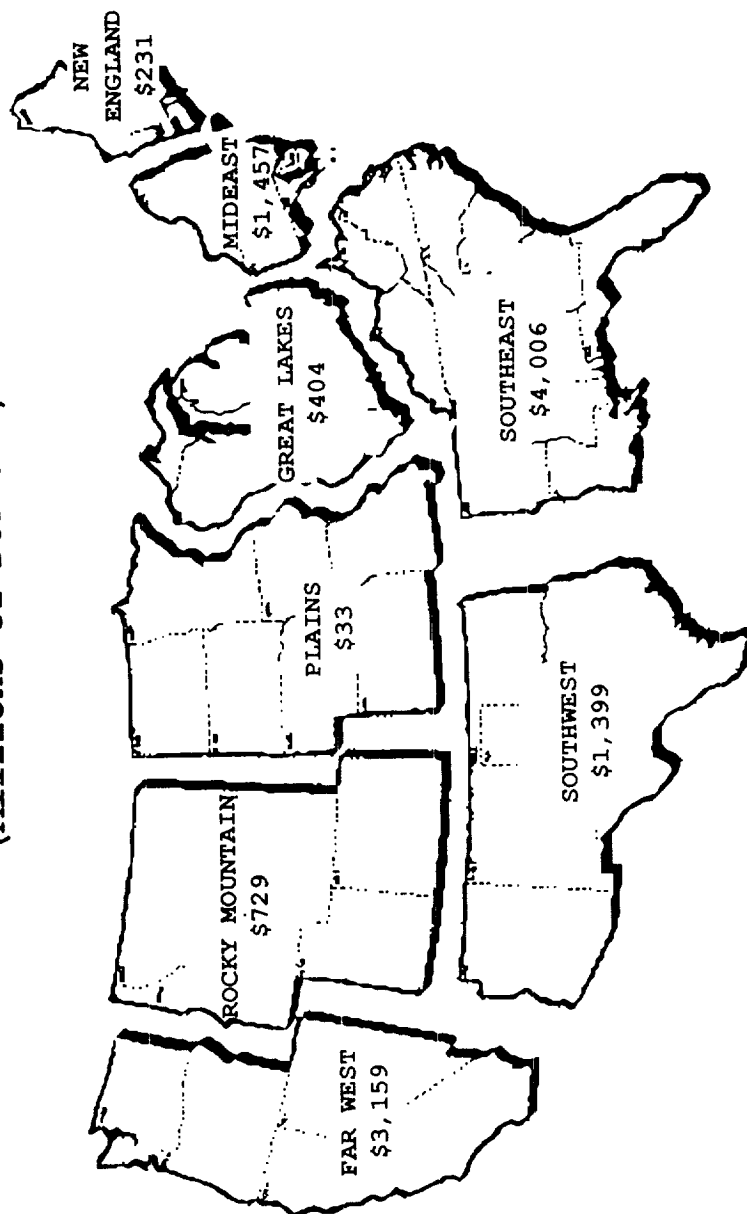
U.S. GEOGRAPHICAL DISTRIBUTION
OF NASA PRIME CONTRACT AWARDS
FISCAL YEAR 1992

STATE	TOTAL (THOUSANDS)	BUSINESS (THOUSANDS)	EDUCATIONAL & NONPROFIT (THOUSANDS)
TOTAL	\$11,435,359	\$10,483,886	\$951,473
ALABAMA	1,232,905	1,205,202	27,703
ALASKA	8,618	50	8,568
ARIZONA	43,651	20,843	22,808
ARKANSAS	407	94	313
CALIFORNIA	3,110,769	2,926,135	184,634
COLORADO	195,956	169,652	26,304
CONNECTICUT	73,623	71,978	1,645
DELAWARE	3,212	1,212	2,000
DIST COLUMBIA	130,783	102,352	28,431
FLORIDA	1,498,227	1,482,440	15,787
GEORGIA	13,438	4,343	9,095
HAWAII	8,420	789	7,631
IDAHO	2,774	--	2,774
ILLINOIS	17,118	4,882	12,236
INDIANA	12,102	6,482	5,620
IOWA	11,512	790	10,722
KANSAS	2,162	(273)	2,435
KENTUCKY	1,284	375	909
LOUISIANA	373,055	371,336	1,719
MAINE	1,326	669	657
MARYLAND	953,479	855,116	98,363
MASSACHUSETTS	137,717	31,945	105,772
MICHIGAN	44,058	4,939	39,119
MINNESOTA	5,869	2,789	3,080
MISSISSIPPI	324,116	320,473	3,643
MISSOURI	10,475	6,021	4,454
MONTANA	1,229	198	1,031
NEBRASKA	1,427	374	1,053
NEVADA	1,600	1,056	544
NEW HAMPSHIRE	14,537	3,544	10,993
NEW JERSEY	120,670	113,134	7,536
NEW MEXICO	57,344	50,524	6,820
NEW YORK	58,447	27,776	30,671
NORTH CAROLINA	11,915	1,788	10,127
NORTH DAKOTA	457	--	457
OHIO	291,195	258,335	32,860
OKLAHOMA	7,263	127	7,136
OREGON	7,998	2,898	5,100
PENNSYLVANIA	190,168	169,255	20,913
RHODE ISLAND	3,549	683	2,866
SOUTH CAROLINA	1,609	106	1,503
SOUTH DAKOTA	882	157	725
TENNESSEE	33,035	10,271	22,764
TEXAS	1,290,889	1,215,398	75,491
UTAH	528,606	516,064	12,542
VERMONT	515	285	230
VIRGINIA	504,850	467,104	37,746
WASHINGTON	38,957	29,062	9,895
WEST VIRGINIA	10,936	434	10,502
WISCONSIN	39,585	24,679	14,906
WYOMING	640	--	640

Note: Excludes smaller procurements, generally those of \$25,000 or less; also excludes awards placed through other Government agencies, awards outside the U.S., and actions on the JPL contracts.

U.S. GEOGRAPHICAL DISTRIBUTION OF NASA PRIME CONTRACT AWARDS
FISCAL YEAR 1992

(Millions of Dollars)



Excludes smaller procurements, generally those of \$25,000 or less;
also excludes awards placed through other Government agencies,
awards outside the U.S., and awards on the JPL contracts.

IX. AWARDS PLACED OUTSIDE THE UNITED STATES

During Fiscal Year 1992, NASA placed \$76.9 million in awards that are being performed outside the United States.

As indicated in the following tabulation, \$76.8 million represented direct NASA awards and \$114 thousand constituted awards placed through other Government agencies. The awards are being performed in seventeen countries and one U.S. territory.

<u>PLACE OF PERFORMANCE</u>	<u>(THOUSANDS)</u>
<u>TOTAL</u>	<u>\$76,874*</u>
<u>DIRECT NASA AWARDS</u>	<u>\$76,760</u>
AUSTRALIA	11,805
BERMUDA	967
CANADA	37,754
CHILE	1,332
FRANCE	136
GERMANY	2,444
HONG KONG	48
IRELAND	49
ISRAEL	116
ITALY	39
JAPAN	1,782
NETHERLANDS	124
NEW ZEALAND	37
PUERTO RICO	838
RUSSIA	1,000
SPAIN	16,465
SWEDEN	174
UNITED KINGDOM	1,650
 <u>PLACED THROUGH</u>	
<u>OTHER GOVERNMENT AGENCIES</u>	<u>\$114</u>
CANADA	114

*Excludes smaller procurements, generally those of \$25,000 or less.

X. PROCUREMENT ACTIVITY BY INSTALLATION

Most of NASA's purchases and contracts are made by the procurement offices of its field installations. During Fiscal Year 1992, these offices accounted for 94 percent of the total procurement dollars.

<u>INSTALLATION</u>	<u>AWARDS (MILLIONS)</u>	<u>PERCENT</u>
<u>TOTAL</u>	<u>\$13,478.2</u>	<u>100.0</u>
MARSHALL SPC FLT CENTER	3,234.1	24.0
JOHNSON SPACE CENTER	2,686.9	19.9
GODDARD SPC FLT CENTER	2,044.3	15.2
KENNEDY SPACE CENTER	1,484.6	11.0
NASA RESIDENT OFFICE/JPL	1,263.7	9.4
LEWIS RESEARCH CENTER	831.6	6.2
HEADQUARTERS	808.6	6.0
AMES RESEARCH CENTER	568.0	4.2
LANGLEY RESEARCH CENTER	436.0	3.2
STENNIS SPACE CENTER	120.4	.9

GLOSSARY

The data contained in this publication were compiled on the basis of the definitions given below:

1. Sealed Bids - Procurement actions resulting from acceptance of bids made by contractors in response to invitations for bid.
2. Award - See procurement action.
3. Coverage
 - a. Summary data are provided in terms of obligations on all procurement actions (see item 8). The obligation data are obtained from the agency's fiscal records.
 - b. Detailed data - Information on procurements includes all contracts, grants, agreements and all other procurements over \$25,000. Wherever exclusions apply, a generalized footnote is provided, e.g.; "excludes smaller procurements, generally those of \$25,000 or less".
4. Intragovernmental - Procurement actions placed through other Government agencies; except orders placed under Federal Supply Schedule contracts and awards to small disadvantaged business through the Small Business Administration under Section 8(a) of the Small Business Act.
5. Modification - Any written alteration in the specifications, delivery point, contract period, price, quantity, or other contract requirement of an existing contract, whether accomplished by unilateral action in accordance with a contract clause or by mutual agreement of the parties to the contract. It includes (a) bilateral actions, such as supplemental agreements, and (b) unilateral actions, such as change orders, notices of termination, and notices of the exercise of an option.
6. Competitive - Procurements where offers are solicited from more than one responsible offeror capable of satisfying the Government's requirements wholly or partially, and the award or awards were made on the basis of price, design or technical competition.

7. Other Than Competitive - Procurements where an offer was solicited and received from only one responsible offeror capable of satisfying the Government's requirements wholly or partially. (Includes contracts resulting from unsolicited proposals.)
8. Procurement Action (Award) - Any contractual action to obtain supplies, services or construction which increase or decrease funds, including:
 - a. Letter contracts or other preliminary notices of negotiated awards.
 - b. Definitive contracts, including purchase orders.
 - c. Orders under GSA Federal Supply Schedule contracts, basic ordering agreements, and against indefinite delivery type contracts.
 - d. Intragovernmental orders.
 - e. Grants.
 - f. Cooperative and Space Act Agreements.
 - g. Supplemental agreements, change orders, administrative changes and terminations to existing procurements.
9. Small Business - For purposes of Government procurement, is a profit making concern, including its affiliates, which is independently owned and operated, is not dominant in its field and further qualifies under the size standards criteria of the Small Business Administration (SBA). These criteria are published under Title 13 of the Code of Federal Regulations, Section 121.3-8, and in the Federal Acquisition Regulation, Part 19, Subpart 19.1. For service industries, the size standard generally is based on average annual receipts over a three-year period, depending on the service to be procured. Generally, in the case of agricultural or manufactured products, the size standards are determined on the basis of number of employees. The applicable size standard is prescribed in each NASA solicitation.

APPENDIXES

DISTRIBUTION OF DIRECT NASA PROCUREMENTS

FISCAL YEARS 1961 - 1970

TYPE	FY 1961	FY 1962	FY 1963	FY 1964	FY 1965	FY 1966	FY 1967	FY 1968	FY 1969	FY 1970
			Net Value of Awards (Millions)							
Total	<u>\$755.5</u>	<u>\$1,550.6</u>	<u>\$3,230.5</u>	<u>\$4,593.9</u>	<u>\$5,187.4</u>	<u>\$5,031.6</u>	<u>\$4,650.9</u>	<u>\$4,132.7</u>	<u>\$3,652.0</u>	<u>\$3,405.6</u>
Business Firms	423.3	1,030.1	2,261.7	3,521.1	4,141.4	4,087.7	3,864.1	3,446.7	3,022.3	2,759.2
Educational			86.9	112.9	139.5	150.0	132.9	131.5	131.3	134.3
Nonprofit	24.5	50.2	15.3	29.1	25.3	27.7	39.6	33.6	32.3	33.0
JPL	86.0	148.5	230.2	226.2	247.2	230.3	222.2	207.2	156.3	179.8
Government	221.7	321.8	628.5	692.6	622.8	512.5	366.9	287.0	279.0	265.8
Outside U.S.	*	*	7.9	12.0	11.2	23.4	25.2	26.7	30.8	33.5
			Percent of Total							
Total	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
Business Firms	56	66	70	77	79	81	83	83	83	81
Educational	3	3	3	2	3	3	3	3	4	4
Nonprofit			**	1	1	1	1	1	1	1
JPL	12	10	7	5	5	5	5	5	4	5
Government	29	21	20	15	12	10	8	7	7	8
Outside U.S.	*	*	**	**	**	**	**	1	1	1

*Included in Government. **Less than 0.5 percent.

APPENDIX I

FISCAL YEARS 1971 - 1979

*Less than 0.5 percent.

APPENDIX I

FISCAL YEARS 1980 - 1989

APPENDIX I

DISTRIBUTION OF DIRECT NASA PROCUREMENTS (Cont'd)

FISCAL YEARS 1990 - 1992

TYPE	FY 1990	FY 1991	FY 1992	Net Value of Awards (Millions)			
Total	<u>\$12,565.2</u>	<u>\$13,159.0</u>	<u>\$13,478.2</u>				
Business Firms	10,071.5	10,417.3	10,716.7				
Educational	513.6	592.0	659.3				
Nonprofit	200.6	244.0	297.8				
JPL	1,106.8	1,139.6	1,229.6				
Government	610.4	693.4	498.6				
Outside U.S.	62.3	72.7	76.2				
Total	<u>100</u>	<u>100</u>	<u>100</u>	Percent of Total			
Business Firms	80	79	79				
Educational	4	4	5				
Nonprofit	2	2	2				
JPL	9	9	9				
Government	5	5	4				
Outside U.S.	*	1	1				

*Less than 0.5 percent.

APPENDIX I

FISCAL YEARS 1961 - 1970

APPENDIX II

COMPETITION IN NASA AWARDS TO BUSINESS FIRMS (Cont'd)

FISCAL YEARS 1971 - 1979

TYPE OF ACTION	FY 1971	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977	FY 1978	FY 1979
				Net Value of Awards (Millions)					
<u>Total Business</u>	<u>\$2,279.5</u>	<u>\$2,143.3</u>	<u>\$2,063.8</u>	<u>\$2,118.6</u>	<u>\$2,255.0</u>	<u>\$2,536.1</u>	<u>\$2,838.1</u>	<u>\$2,953.8</u>	<u>\$3,416.4</u>
New Awards*	563.0	462.5	489.5	552.4	452.0	486.3	552.5	633.1	516.6
Modifications	1,716.5	1,680.8	1,574.3	1,566.2	1,803.0	2,049.8	2,285.6	2,320.7	2,899.8
<u>Competitive</u>	<u>1,331.8</u>	<u>1,311.8</u>	<u>1,275.6</u>	<u>1,394.9</u>	<u>1,554.6</u>	<u>1,879.5</u>	<u>2,060.4</u>	<u>2,111.5</u>	<u>2,541.1</u>
New Awards*	306.6	257.0	308.1	279.5	223.9	291.3	301.7	362.1	304.0
Modifications	1,025.2	1,054.8	967.5	1,115.4	1,330.7	1,588.2	1,758.7	1,749.4	2,237.1
<u>Noncompetitive</u>	<u>947.7</u>	<u>831.5</u>	<u>788.2</u>	<u>723.7</u>	<u>700.4</u>	<u>656.6</u>	<u>777.7</u>	<u>842.3</u>	<u>875.3</u>
New Awards*	256.4	205.5	181.4	272.9	228.1	195.0	250.8	271.0	212.6
Modifications	691.3	626.0	606.8	450.8	472.3	461.6	526.9	571.3	662.7
	Percent of Total								
<u>Total Business</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
New Awards*	24	22	24	26	20	19	20	22	15
Modifications	76	78	76	74	80	81	80	78	85
<u>Competitive</u>	<u>58</u>	<u>61</u>	<u>62</u>	<u>66</u>	<u>69</u>	<u>74</u>	<u>73</u>	<u>72</u>	<u>74</u>
New Awards*	13	12	15	13	10	11	11	13	9
Modifications	45	49	47	53	59	63	62	59	65
<u>Noncompetitive</u>	<u>42</u>	<u>39</u>	<u>38</u>	<u>34</u>	<u>31</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>26</u>
New Awards*	11	10	9	13	10	8	9	9	6
Modifications	31	29	29	21	21	18	18	19	20
*Data on new contracts are restricted to contracts of \$10,000 and over.									

APPENDIX II

COMPETITION IN NASA AWARDS TO BUSINESS FIRMS (Cont'd)

FISCAL YEARS 1980 - 1985**

TYPE OF ACTION	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985			
<u>Total Business**</u>	<u>\$3,820.4</u>	<u>\$4,208.2</u>	<u>\$4,724.5</u>	<u>\$5,501.2</u>	<u>\$5,859.3</u>	<u>\$6,525.9</u>			
New Awards*	634.3	479.3	717.6	761.0	716.6	775.9			
Modifications	3,186.1	3,728.9	4,006.9	4,740.2	5,142.7	5,750.0			
<u>Competitive</u>	<u>2,858.1</u>	<u>3,127.7</u>	<u>3,436.5</u>	<u>3,845.3</u>	<u>4,286.6</u>	<u>\$5,030.2</u>			
New Awards*	382.5	257.8	351.9	446.2	426.0	533.5			
Modifications	2,475.6	2,869.9	3,084.6	3,399.1	3,860.6	4,496.7			
<u>Other Than</u>	<u>962.3</u>	<u>1,080.5</u>	<u>1,288.0</u>	<u>1,655.9</u>	<u>1,572.7</u>	<u>\$1,495.7</u>			
Competitive	251.8	221.5	365.7	314.8	290.6	242.4			
New Awards*	710.5	859.0	922.3	1,341.1	1,282.1	1,253.3			
Modifications									
<u>Total Business</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>			
New Awards*	17	11	15	14	12	12			
Modifications	83	89	85	86	88	88			
<u>Competitive</u>	<u>75</u>	<u>74</u>	<u>72</u>	<u>70</u>	<u>73</u>	<u>77</u>			
New Awards*	10	6	7	8	7	8			
Modifications	65	68	65	62	66	69			
<u>Other Than</u>	<u>25</u>	<u>26</u>	<u>28</u>	<u>30</u>	<u>27</u>	<u>23</u>			
Competitive	7	5	8	6	5	4			
New Awards*	18	21	20	24	22	19			
Modifications									
*Data on new contracts are restricted to contracts of \$25,000 and over.									
**Excludes 8(a) awards									

APPENDIX II

COMPETITION IN NASA AWARDS

FISCAL YEARS 1986 - 1992

TYPE OF ACTION	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992		
<u>Total Available</u>	<u>\$7,310.3</u>	<u>\$6,575.3</u>	<u>\$7,350.4</u>	<u>\$8,705.5</u>	<u>\$10,202.3</u>	<u>\$10,562.7</u>	<u>\$10,877.3</u>		
<u>Competed</u>	<u>4,950.1</u>	<u>5,031.7</u>	<u>5,890.3</u>	<u>6,995.8</u>	<u>8,318.4</u>	<u>8,169.8</u>	<u>8,660.2</u>		
New Awards	772.5	827.3	1,091.0	891.7	1,059.6	679.5	699.1		
Modifications	4,177.6	4,204.4	4,799.3	6,104.1	7,258.8	7,490.3	7,961.8		
<u>Not Competed</u>	<u>2,143.1</u>	<u>1,445.7</u>	<u>\$1,279.4</u>	<u>1,376.3</u>	<u>1,338.5</u>	<u>782.8</u>	<u>780.2</u>		
New Awards	289.4	404.5	193.0	214.7	244.5	123.6	161.8		
Modifications	1,853.7	1,041.2	1,086.4	1,161.6	1,094.0	659.2	618.4		
<u>Follow-on</u>	<u>217.1</u>	<u>97.9</u>	<u>180.7</u>	<u>333.4</u>	<u>545.4</u>	<u>1,610.1</u>	<u>1,436.2</u>		
New Awards	15.1	.5	160.1	1.2	138.4	595.5	6.8		
Modifications	202.0	97.4	20.6	332.2	407.0	1,014.6	1,429.4		
<u>Total Available</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>		
<u>Competed</u>	<u>57.7</u>	<u>76.5</u>	<u>80.1</u>	<u>80.4</u>	<u>81.5</u>	<u>77.3</u>	<u>79.6</u>		
New Awards	10.6	12.6	14.8	10.3	10.4	6.4	6.4		
Modifications	57.1	63.9	65.3	70.1	71.1	70.9	73.2		
<u>Not Competed</u>	<u>29.3</u>	<u>22.0</u>	<u>17.4</u>	<u>15.8</u>	<u>13.1</u>	<u>7.4</u>	<u>7.2</u>		
New Awards	3.9	6.2	2.6	2.5	2.4	1.2	1.5		
Modifications	25.4	15.8	14.8	13.3	10.7	6.2	5.7		
<u>Follow-on</u>	<u>3.0</u>	<u>1.5</u>	<u>2.5</u>	<u>3.8</u>	<u>5.4</u>	<u>15.3</u>	<u>13.2</u>		
New Awards	.2	*	2.2	*	1.4	5.7	.1		
Modifications	2.8	1.5	.3	3.8	4.0	9.6	13.1		

*Less than .05 percent.

APPENDIX IIA

SMALL BUSINESS PARTICIPATION IN NASA PROCUREMENTS

FISCAL YEARS 1961 - 1990

(Millions of Dollars)

	FY 1961	FY 1962	FY 1963	FY 1964	FY 1965	FY 1966	FY 1967	FY 1968	FY 1969	FY 1970
TOTAL BUSINESS	\$ 423.3*	\$1,030.1*	\$2,261.7	\$3,521.1	\$4,141.4	\$4,087.7	\$3,864.1	\$3,446.1	\$3,022.3	\$2,759.2
SMALL BUSINESS % OF TOTAL	63.5 15.0%	123.6 12.0%	191.3 8.5%	240.3 6.8%	286.3 6.9%	255.9 6.3%	216.9 5.6%	189.6 5.5%	162.8 5.4%	161.2 5.8%
SET-ASIDES % OF TOTAL % OF SMALL	6.0 1.4% 9.4%	14.0 1.3% 11.3%	26.0 1.1% 13.6%	39.5 1.1% 16.4%	67.4 1.6% 23.5%	50.6 1.2% 19.8%	45.7 1.2% 21.1%	34.0 1.0% 17.9%	31.4 1.0% 19.3%	35.7 1.3% 22.1%
	FY 1971	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977	FY 1978	FY 1979	FY 1980
TOTAL BUSINESS	\$2,279.5	\$2,143.3	\$2,063.8	\$2,118.6	\$2,255.0	\$2,536.1	\$2,838.1	\$2,953.8	\$3,416.4	\$3,868.3
SMALL BUSINESS % OF TOTAL	178.1 7.8%	160.9 7.5%	155.3 7.5%	181.2 8.6%	216.0 9.6%	218.3 8.6%	255.0 9.0%	281.5 9.5%	325.4 9.5%	384.6 9.9%
SET-ASIDES % OF TOTAL % OF SMALL	41.1 1.9% 23.1%	45.1 2.1% 28.0%	47.3 2.3% 30.5%	61.5 3.0% 33.9%	62.6 2.8% 29.0%	66.8 2.6% 30.6%	83.7 3.0% 32.8%	92.5 3.1% 32.9%	92.4 3.0% 30.5%	175.2 4.5% 45.6%
	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990
TOTAL BUSINESS	\$4,272.8	\$4,805.6	\$5,586.0	\$5,967.4	\$6,652.9	\$6,356.0	\$6,540.5	\$7,274.9	\$8,567.6	\$10,071.5
SMALL BUSINESS % OF TOTAL	409.4 9.6%	430.1 8.9%	482.3 8.6%	556.2 9.3%	644.7 9.7%	671.3 10.6%	786.3 12.0%	801.4 11.0%	857.3 10.0%	924.3 9.2%
SET-ASIDES % OF TOTAL % OF SMALL	195.8 4.6% 47.8%	209.3 4.4% 48.6%	212.0 3.8% 43.9%	222.5 3.7% 40.0%	270.0 4.1% 41.9%	260.9 4.1% 38.9%	297.2 4.5% 37.8%	326.1 4.5% 40.7%	322.5 3.8% 37.6%	307.3 3.1% 33.2%

*Excludes procurements placed under General Services Administration contracts

APPENDIX III

FISCAL YEARS 1991 - 1992

(Millions of Dollars)

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APPENDIX III

